

## Water-Data Report 2008

**01477110 RACCOON CREEK AT MULlica HILL, NJ**

DELAWARE RIVER BASIN

LOCATION.--Lat 39°44'10", long 75°13'29" referenced to North American Datum of 1983, Harrison Township, Gloucester County, NJ, Hydrologic Unit 02040202, at bridge on State Routes 45 and 77 in Mullica Hill, 1,200 ft downstream of Mullica Hill Pond, and 5.5 mi west of Pitman.

DRAINAGE AREA.--15.6 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 2007-08.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 18.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Time	Sample medium and type	Turbdty	UV	UV	Baro-	Dis-	Dis-	pH,
			white light, det ang 90+/-30 corrcrd	absorb- ance, 254 nm, wat flt units	absorb- ance, 280 nm, wat flt units				
NTRU (63676)	(50624)	(61726)	(00025)	(00300)	(00301)	(00400)			
<b>Nov</b>									
27...	0900	Surface water, regular	5.9	.132	.104	760	10.0	87	6.9
<b>Mar</b>									
11...	1029	<i>QC - Artificial, field blank</i>	--	--	--	--	--	--	--
11...	1030	Surface water, regular	18	.147	.117	766	11.2	92	6.9
<b>May</b>									
21...	0930	Surface water, regular	7.3	.266	.212	750	7.9	74	7.2
<b>Sep</b>									
03...	0959	<i>QC - Artificial, field blank</i>	--	--	--	--	--	--	--
03...	1000	Surface water, regular	4.2	.139	.111	760	6.0	69	7.4

## 01477110 RACCOON CREEK AT MULLICA HILL, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Specific conductance, wat unf		Temper-ature, air, deg C		Temper-ature, water, deg C		Hard-ness, water, mg/L as CaCO <sub>3</sub>		Magnes-ium, water, mg/L		Potas-sium, water, mg/L		Sodium, water, mg/L		ANC, wat unf	
	25 degC (00095)	μS/cm (00020)	(00010)	(000900)	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)			
Nov 27...	226	14.0	9.5	76	23.1	4.51	4.65	9.04	34	20.8	.13	9.3	29.3			
Mar 11...	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
11...	218	8.1	6.7	68	19.6	4.75	4.10	12.1	23	22.9	.13	8.4	28.5			
May 21...	182	12.6	12.5	56	16.2	3.76	3.82	8.55	28	17.6	.12	7.1	21.7			
Sep 03...	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
03...	217	22.2	21.5	71	21.3	4.40	4.11	9.02	43	20.5	.18	6.3	22.6			

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Residue water, filtrd,	Residue on evap.	Residue total	Ammonia + org-N, water, mg/L as N		Nitrate + nitrite, water, mg/L as N	Partic-ulate nitro- gen, susp., water, mg/L	Total nitro- gen, water, mg/L	Total nitro- gen, water, unfltrd, mg/L	Ortho-phosphate, water, fltrd, mg/L as P	Phos- phorus, water, fltrd, mg/L as P	Phos- phorus, water, unfltrd, mg/L as P	Total carbon, suspnd sedimnt, mg/L
	sum of constituents	180degC wat flt	non-filterable, mg/L	(00530)	(00623)	(00608)	(00631)	(49570)	(00602)	(00600)	(00671)	(00666)	(00694)
Nov 27...	E126	133	3	.26	.035	1.08	.12	1.3	1.5	E.006	.023	.072	.7
Mar 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	123	126	6	.29	.054	1.91	.08	2.2	2.3	.040	.035	.150	.7
May 21...	101	120	12	.53	.095	1.11	.10	1.6	1.7	.040	.053	.104	.7
Sep 03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	E116	143	5	.31	.036	.39	E.03	.70	E.73	E.008	.034	.056	.3

## 01477110 RACCOON CREEK AT MULLICA HILL, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 4 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Inor-gan-ic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd µg/L (01002)	Barium, water, unfltrd recover -able, µg/L (01007)	Beryll-ium, water, unfltrd recover -able, µg/L (01012)	Boron, water, unfltrd recover -able, µg/L (01020)	Boron, water, unfltrd recover -able, µg/L (01022)	Cadmium, water, unfltrd recover -able, µg/L (01027)	Chrom-ium, water, unfltrd recover -able, µg/L (01034)	Copper, water, unfltrd recover -able, µg/L (01040)
Nov 27...	<.04	.7	3.6	--	--	--	--	28	--	--	--	--
Mar 11...	--	--	--	<.06	--	--	--	--	--	--	<1.0	--
11...	<.04	.7	4.0	.43	1.1	49.8	.06	32	33	.15	.93	--
May 21...	<.04	.7	5.1	--	--	--	--	25	--	--	--	--
Sep 03...	--	--	--	<.06	--	--	--	--	--	--	<1.0	--
03...	<.04	.3	3.3	.91	1.1	63.0	<.04	27	27	<.01	<.40	--
												<1.2

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 5 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, unfltrd recover -able, µg/L (01049)	Manganese, water, unfltrd recover -able, µg/L (01051)	Mercury water, unfltrd recover -able, µg/L (01055)	Mercury water, unfltrd recover -able, µg/L (71890)	Nickel, water, unfltrd recover -able, µg/L (71900)	Nickel, water, unfltrd recover -able, µg/L (01065)	Selenium, water, unfltrd recover -able, µg/L (01067)	Silver, water, unfltrd recover -able, µg/L (01147)	Zinc, water, unfltrd recover -able, µg/L (01077)	Zinc, water, unfltrd recover -able, µg/L (01090)	Zinc, water, unfltrd recover -able, µg/L (01092)
Nov 27...	--	--	--	--	--	--	--	--	--	--	--	--
Mar 11...	--	<.08	--	--	<.010	--	<.20	--	--	--	<1.8	--
11...	1,260	--	.77	61.1	--	<.010	--	4.2	.18	<.02	--	16.7
May 21...	--	--	--	--	--	--	--	--	--	--	--	--
Sep 03...	--	<.08	--	--	<.010	--	<.20	--	--	--	<1.8	--
03...	1,080	--	.09	26.0	--	<.010	--	.86	.10	<.02	--	<2.0

## 01477110 RACCOON CREEK AT MULLICA HILL, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 7

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	1-Naph-thol, water, filtrd, 0.7u GF	2,6-Di-ethyl-aniline, water, filtrd, 0.7u GF	2Chloro- -2',6'-diethyl acetanilide, water, CIAT, wat flt	2-Ethyl- -6-methyl-chloro-aniline, water, water, filtrd,	3,4-Di-chloro-aniline, water, water, filtrd,	3,5-Di-chloro-aniline, water, water, filtrd,	4-Chloro- 2methyl-phenol, water, water, filtrd,	Aceto-chlor, water, water, filtrd,	Ala-chlor, water, water, filtrd,	alpha-Endo-sulfan, water, water, filtrd,	Atra-zine, water, water, filtrd,	Azin-phos-methyl oxon, water, filtrd, 0.7u GF	
	µg/L (49295)	µg/L (82660)	µg/L (61618)	µg/L (04040)	µg/L (61620)	µg/L (61625)	µg/L (61627)	µg/L (61633)	µg/L (49260)	µg/L (46342)	µg/L (34362)	µg/L (39632)	µg/L (61635)
May 21...	<.04	<.006	<.010	E.049	<.010	<.006	<.008	E.004	<.006	<.006	<.006	.432	<.04

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 7

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Azin-phos-methyl, water, filtrd, 0.7u GF	Ben-flur-alin, water, filtrd, 0.7u GF	Car-baryl, water, filtrd, 0.7u GF	Carbo-furan, water, filtrd, 0.7u GF	Chlor-pyrifos, oxon, water, filtrd, 0.7u GF	Chlor-pyrifos, water, filtrd, 0.7u GF	cis-Per-methrin, water, filtrd, 0.7u GF	cis-Propi-conazole, water, filtrd, 0.7u GF	Cyana-zine, water, filtrd, 0.7u GF	Cyflu-thrin, water, filtrd, 0.7u GF	lambda-Cyhalothrin, water, filtrd, 0.7u GF	Cyper-methrin, water, filtrd, 0.7u GF	DCPA, water, filtrd, 0.7u GF
	µg/L (82686)	µg/L (82673)	µg/L (82680)	µg/L (82674)	µg/L (61636)	µg/L (38933)	µg/L (82687)	µg/L (79846)	µg/L (04041)	µg/L (61585)	µg/L (61595)	µg/L (61586)	µg/L (82682)
May 21...	<.120	<.010	E.007	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 7

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Desulf- inyl- fipro- nil, water, filtrd, 0.7u GF	Diazi- non, water, filtrd, 0.7u GF	Dicro- tophos, water, filtrd, 0.7u GF	Diel- drin, water, filtrd, 0.7u GF	Dimeth- oate, water, filtrd, 0.7u GF	Disulf- oton, water, filtrd, 0.7u GF	Disul- foton, water, filtrd, 0.7u GF	Endo- sulfan, water, filtrd, 0.7u GF	EPTC, water, filtrd, 0.7u GF	Ethion, monoxon water, filtrd, 0.7u GF	Ethion, water, filtrd, 0.7u GF	Etho- prop, water, filtrd, 0.7u GF	Fenami- phos- sulfone water, filtrd, 0.7u GF
	µg/L (62170)	µg/L (39572)	µg/L (38454)	µg/L (39381)	µg/L (82662)	µg/L (61640)	µg/L (82677)	µg/L (61590)	µg/L (82668)	µg/L (61644)	µg/L (82346)	µg/L (82672)	µg/L (61645)
May 21...	E.003	<.005	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053

## 01477110 RACCOON CREEK AT MULLICA HILL, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 4 of 7

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Fenami-phos sulf-oxide, water, filtd, µg/L (61646)	Fenami-phos, water, filtd, µg/L (61591)	Desulf-inyl-fipro-nil sulfide, wat flt µg/L (62169)	Fipro-nil sulfone, water, filtd, µg/L (62167)	Fipro-nil water, filtd, µg/L (62168)	Fipro-nil water, filtd, µg/L (62166)	Fonofos (04095)	Hexazinone, water, filtd, µg/L (04025)	Iprodione, water, filtd, µg/L (61593)	Isofen-phos, water, filtd, µg/L (61594)	Mala-oxon, water, filtd, µg/L (61652)	Mala-thion, water, filtd, µg/L (39532)	Metaxyl, water, filtd, µg/L (61596)
May 21...	<.20	<.03	<.029	<.013	<.024	E.007	<.010	<.008	<.01	<.006	<.020	<.016	.012

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 5 of 7

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Methid-athon, water, filtd, µg/L (61598)	Methyl para-thion, water, filtd, µg/L (61664)	Methyl para-thion, water, filtd, 0.7u GF µg/L (82667)	Metola-chlor, water, filtd, µg/L (39415)	Metri-buzin, water, filtd, µg/L (82630)	Moli-nate, water, filtd, 0.7u GF µg/L (82671)	Myclo-butanol, water, filtd, µg/L (61599)	Oxy-fluor-fen, water, filtd, µg/L (61600)	Pendi-methalin, water, filtd, 0.7u GF µg/L (82683)	Phorate, water, filtd, µg/L (61666)	Phorate, water, filtd, 0.7u GF µg/L (82664)	Phosmet, water, filtd, µg/L (61668)	Phosmet, water, filtd, µg/L (61601)
May 21...	<.004	<.01	<.008	.403	E.007	<.003	E.009	<.006	<.012	<.03	<.040	<.05	<.008

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 6 of 7

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Promo-ton, water, filtd, µg/L (04037)	Promo-tryn, water, filtd, µg/L (04036)	Propy-zamide, water, filtd, 0.7u GF µg/L (82676)	Pro-palin, water, filtd, 0.7u GF µg/L (82679)	Propar-gite, water, filtd, 0.7u GF µg/L (82685)	Simazine, water, filtd, 0.7u GF µg/L (04035)	Tebu-thiuron, water, filtd, 0.7u GF µg/L (82670)	Teflu-thrin, water, filtd, 0.7u GF µg/L (61606)	Ter-bufos, water, filtd, 0.7u GF µg/L (61674)	Terbu-fos, water, filtd, 0.7u GF µg/L (82675)	Ter-butyl-azine, water, filtd, 0.7u GF µg/L (04022)	Thio-bencarb, water, filtd, 0.7u GF µg/L (82681)	Propi-conazole, water, filtd, 0.7u GF µg/L (79847)	
May 21...	M		<.006	<.004	<.006	<.04	E.007	<.02	<.003	<.04	<.02	<.01	<.010	<.02

**01477110 RACCOON CREEK AT MULLICA HILL, NJ—Continued****WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO  
SEPTEMBER 2008**

Part 7 of 7

[Remark codes: <, less than; E, estimated;  
M, presence verified but not quantified.]

	Tri- flur- alin,	Di- chlor-
Date	Tribu- phos, water, water, filtrd,	vos, water, filtrd,
	μg/L (61610)	μg/L (82661)
<b>May</b>		
<b>21...</b>	<.035	<.009
		<.01